

Corporate Headquarters PO Box 9777 Federal Way WA 98063-9777 Tel (253) 924 2345

OCT 2 8 2002

October 24, 2002

Rachel S. Browder, Health Physicist Nuclear Materials Licensing Branch US Nuclear Regulatory Commission Region IV 611 Ryan Plaza Drive, Suite 400 Arlington, TX 76011-8064

Subject: Submission of Form 241 and applicable reciprocity fee for RTS Reference Number 001095

Dear Ms Browder,

Find enclosed the application fee and 3 copies of the Weyerhaeuser Technology Center Radioactive Materials license per your request.

The device and components were shipped on Wednesday, October 23 from the Weyerhaeuser Technology Center in Federal Way, WA to the Weyerhaeuser Paper facility in Rothschild, WI.

Thanks for your timely assistance in this transaction as I become educated in the processes and procedures required as the RSO of our facility.

If you have any questions or require additional information, please contact me at (253) 924-4532.

Sincerely, Morma J. Lughes

Norma J. Lupkes

RSO

HQ Region Health, Safety & Environmental Services Weyerhaeuser Technology Center, WTC – TR2 32901 Weyerhaeuser Way So.

Federal Way, WA 98003

Enclosures

cc: Radiation Program File

•									
NRC FORM 241 U.S. NUCLEAR REGULATORY COMMISSION (7-1999)  REPORT OF PROPOSED ACTIVITIES IN					APPROVED BY OMB: NO. 3150-0013  Estimated burden per response to somely with this mandatory collection request: 15 minutes. This positional is required so that NRC meschedule inspection of the activities to ensure that they are conducted accordance with requirements for protection of the public health at safety. Send administrate separding burden estimate to the Record Management Branch (1-6 E8). U.S. Nuclear Regulatory Commission Washington, DC 20555-0001, or by internet e-mail to bis 1@mc.go and to the Desk Officer, Office of Information and Regulatory Affair, NEOB-10202, [3450-6013]: "Office of Information and Regulatory Commission and Budge Washington, DC 20503. If a means used to impose an informatic collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required trespond to, the information collection.				
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ACTIVITIES WHICH ARE THE ABOVE. (Four copies of the	IC LICENSE WHICH AUTHORIZES THE UND SAME, EXCEPT FOR LOCATION OF USE, A: the specific license must accompany the li 19. CERTIFICATIO	nitial NRC Form	241.)	WN-LOE	33 - 1	WA	31 MAR	2004	
THE UNDERSIGNED, HER	EBY CERTIFY THAT:	, , , , , , , , , , , , , , , , , , ,	C COMP E	EIED BI AFF()	CANIJ			1	
b. I have read and und required to comply	ils report is true and complete. lerstand the provision of the general il with these provisions as to all byprod fer the general license for which this r	UET SCUICE AI	thecisi ou	class material whi	ch I ======		end I understand tha in non-Agreement S	t i am tates or	
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OR NRC	Racher S. Browder	SIGNATURE	1/3 F	rowder	DATE 10 22		OTAL USAGE - DAYS T	O DATE	
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### STATE OF WASHINGTON

## RADIOACTIVE MATERIALS LICENSE



Page 1 of 8 Pages

Pursuant to the Nuclear Energy and Radiation Control Act, RCW 70.98, and the Radiation Control Regulations, Chapters 246-220 through 246-255 WAC, and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material(s) designated below, and to use such radioactive materials for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations promulgated by the State of Washington Department of Health.

1. Licensee Name:				3. License Number: WN-L083-1 (RENEWAL)				
WEYERHAEUSER TECHNOLOGY CENTER			Amendment No. 37					
2. Address:			4. Expiration Date: 31 March 2004					
Mail Stop: WTC TR2			5. Reference Number(s):					
Post Office Box 2999 Tacoma, Washington 98477-2999			99-04-40; 99-05-26					
6. Radioactive Material (element and mass number).		7. Chemical and/or Physical Form.			. Maximum quantity licensee may possess at any one time.			
A. Krypton 85.	A.	Sealed source (manufactured and distributed pursuant to the require of a specific license and approved indicated by License Condition 9).		A.	No single source to exceed 1.85 gigabecquerels (50 millicuries). Total not to exceed 3.7 gigabecquerels (100 millicuries).			
B. Krypton 85.	В.	Same as 7A.		B.	7.4 gigabecquerels (20 millicuries).			
C. Strontium 90.	C.	Same as 7A.		C.	370 megabecquerels (10 millicuries).			
D. Americium 241.	D.	Same as 7A.		D.	No single source to exceed 37 gigabecquerels (1 curie). Total not to exceed 74 gigabecquerels (2 curies).			
E. Americium 241.	Æ.	Same as 7A.		E.	No single source to exceed 9.25 gigabecquerels (250 millicuries). Total not to exceed 18.5 gigabecquerels (500 millicuries).			
F. Americium 241.	F.	Same as 7A.		F.	37 gigabecquerels (1 curie).			



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License Number: WN-L083-1

G. Americium 241.	G.	Same as 7A.	G.	37 gigabecquerels (1 curie).
H. Americium 241.	Н.	Same as 7A.	H.	No single source to exceed 18.5 gigabecquerels (500 millicuries). Total not to exceed 55.5 gigabecquerels (1.5 curies).
I. · Iron 55.	I.	Same as 7A.	I	5.55 gigabecquerels (150 millicuries).
J. Plutonium 238.	J.	Same as 7A.	J.	No single disc source to exceed 3.7 gigabecquerels (100 millicuries). Total not to exceed 11.1 gigabecquerels (300 millicuries).
K. Carbon 14.	K.	Same as 7A.	K.	1.11 gigabecquerels (30 millicuries).
L. Americium 241.	L.	Same as 7A.	L.	37 gigabecquerels (1 curie).
M. Americium 241.	M.	Same as 7A.	M.	3.7 gigabecquerels (100 millicuries).
N. Americium 241.	N.	Same as 7A.	N.	No single source to exceed 2.96 gigabecquerels (80 millicuries). Total not to exceed 8.88 gigabecquerels (240 millicuries).
O. Cadmium 109.	O.	Same as 7A.	0.	185 megabecquerels (5 millicuries).
P. Iron 55.	P.	Same as 7A.	P.	No single source to exceed 1.67 gigabecquerels (45 millicuries). Total not to exceed 3.34 gigabecquerels (90 millicuries).



to exceed 555

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#### Amendment No. 37

Q. Nickel 63.	Q.	Same as 7A.	Q.	No single foil source to exceed 55 megabecquerels (15 millicuries).
R. Promethium 147.	R.	Same as 7A.	R.	111 megabecquerels (3 millicuries).
S. Cesium 137.	S.	Same as 7A.	S.	925 megabecquerels (25 millicuries).
T. Krypton 85.	T.	Same as 7A.	T.	11.1 gigabecquerels (300 millicuries).
U. Iron 55.	U.	Same as 7A.	U.	3.7 gigabecquerels (100 millicuries).
V. Promethium 147.	V.	Same as 7A.	V.	18.5 gigabecquerels (500 millicuries).
W. Krypton 85.	W.	Same as 7A.	W.	7.4 gigabecquerels (200 millicuries).

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#### **CONDITIONS**

- 9. Authorized use.
- For storage only in Foxboro beta ray profilers, Model 39SWP3, at Weyerhaeuser A. Technology Center.
- B. & C. For storage only in Foxboro paper profiler, Model AB, at Weyerhaeuser Technology
- For storage only in Measurements Inc. thickness gauges at Weyerhaeuser Technology D. Center.



#### Page 4 of 8 Pages

License Number: WN-L083-1

Amendment No. 37

For storage only in Ohmart Corporation BG-12 source holders at Weyerhaeuser Technology Center.
 For storage only in Trapelo Model SS-3 density gauge at Weyerhaeuser Technology

Center.

Center.

- G. For storage only in Ronan Model SA8-F37 thickness gauge at Weyerhaeuser Technology
- H. For storage only in Ohmart Corporation Model W-4000 thickness gauges at Weyerhaeuser Technology Center.
- I. For storage only in Nuclear Equipment Corporation Model 46-1A portable x-ray fluorescence analyzer at Weyerhaeuser Technology Center.
- J. For storage only in Nuclear Equipment Corporation Model PPCL-13446 portable x-ray fluorescence analyzers at Weyerhaeuser Technology Center.
- K. For storage only in Polymethymethacrylate sheet at Weyerhaeuser Technology Center.
- L. For storage only in Ohmart Corporation Model Webart 1000 fibrous filter tester at Weyerhaeuser Technology Center.
- M. For storage only in NDC Systems Model RPG 41 profiler at Weyerhaeuser Technology Center.
- N. For use in NDC Systems Model 100 Series mass thickness gauges for process measurements at Weyerhaeuser Technology Center.
- O.& P. For use in Texas Nuclear Corporation Model 9200 Series portable backscatter gauges for process measurements.
- Q. For use in Hewlett-Packard Model 5800 Series gas chromatographs for sample analysis.
- R. For use in AMBERTEC Model BFT-1 formation tester for process measurements.
- S. For use in Industrial Nucleonics Model LS-101 density gauge for process measurements.



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License Number: WN-L083-1

- T. For use in Data Measurement Corporation Model 410 profiler gauge for process measurements.
- U. For use in Tapio Ash Sensor Model AS-1h13 gauge for process measurements.
- V. For use in Tapio Basis Weight Sensor Model BW-5h23 gauge for process measurements.
- W. For use in Tapio Basis Weight Sensor Model BW-K2h52 gauge for process measurements.
- 10. A. Radioactive materials shall be stored and/or used at 32901 Weyerhaeuser Way South, Federal Way, Washington.
  - B. Portable devices may also be used at temporary job sites, in areas NOT under exclusive federal jurisdiction, throughout the state of Washington. Before radioactive materials can be used at a temporary job site at any federal facility, the jurisdictional status of the job site must be determined. Authorization for use of radioactive materials at job sites under exclusive federal jurisdiction must be obtained from the appropriate regional office of the U.S. Nuclear Regulatory Commission. Before radioactive materials can be used at a temporary job site in another state, authorization must be obtained from the state if it is an Agreement State, or from the NRC if it is a non-Agreement State.
- 11. The licensee shall comply with the provisions of Chapter 246-220 WAC, "Radiation Protection -- General Provisions"; Chapter 246-221 WAC, "Radiation Protection Standards"; Chapter 246-222 WAC, "Radiation Protection Worker Rights"; Chapter 246-232 WAC, "Radiation Protection Licensing Applicability"; Chapter 246-235 WAC, "Radioactive Materials -- Specific Licenses"; Chapter 246-247 WAC "Radiation Protection Air Emissions"; and Chapter 246-249 WAC "Radioactive Waste Use of the Commercial Disposal Site."
- 12. The Radiation Safety Officer for this program shall be Allan Sutton.
- Radioactive material shall be used by or under the supervision of Tom Conrad, Bob Veleber, Lenka Zuvac, or other individuals who have successfully completed a training course approved by the department on radiation safety. The Radiation Safety Administrator shall maintain training certificates for all qualified individuals.



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License Number: WN-L083-1

- 14. The licensee's emergency procedures shall conform to procedures outlined in the Washington State Radiation Emergency Handbook revised November 1991, or subsequent revisions, or other procedures specifically approved by License Condition.
- 15. A.1. Each sealed source containing licensed material, other than Hydrogen 3, with a half life greater than thirty (30) days and in any form other than gas, shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
  - 2. Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak test when the source contains 3.7 megabecquerels (100 microcuries) or less of beta and/or gamma emitting material or 370 kilobecquerels (10 microcuries) or less of alpha emitting material.
  - B. The test shall be capable of detecting the presence of 185 becquerels (0.005 microcuries) of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of becquerels (or microcuries) and maintained for inspection by the department.
  - C. If the test reveals the presence of 185 becquerels (0.005 microcurie) or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed in accordance with department regulations. A report shall be filed within five (5) days of the test with the department describing the equipment involved, the test results, and the corrective action taken.
  - D. The licensee is authorized to perform leak test sampling in accordance with their Radioactive Materials License Application. The analysis shall be performed by persons specifically authorized by the department, the U.S. Nuclear Regulatory Commission, an Agreement State, or a Licensing State to perform such services. Alternatively, leak test samples may be collected and analyzed by other persons specifically authorized by the department, the U.S. Nuclear Regulatory Commission, an Agreement State, or a Licensing State to perform such services. Licensing State authorization applies to naturally occurring and accelerator produced radioactive material (NARM) only.



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License Number: WN-L083-1

- 16. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.
- 17. Installation, relocation, maintenance, repair, and initial radiation survey of fixed gauge devices containing licensed material, and installation, replacements, and disposal of sealed sources containing licensed material used in devices shall be performed only by persons specifically licensed by the department, the U.S. Nuclear Regulatory Commission, an Agreement State, or a Licensing State (for NARM only) to perform such services.
- 18. The licensee shall instruct all users that any maintenance or repair on the gauges involving removal of the source holders shall be performed only by the device manufacturer or by other persons specifically authorized by the department, the U.S. Nuclear Regulatory Commission, an Agreement State, or a Licensing State (for NARM only) to perform such services.
- 19. The licensee shall conduct a physical inventory every three (3) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for inspection by the department, and shall include the quantities and kinds of radioactive material, location of sealed sources, and the date of the inventory.
- 20. Gauges containing radioactive sealed sources shall be either returned to the manufacturer, transferred to an authorized licensee or transferred to a licensed waste broker upon disposal.
- 21. The licensee shall maintain a utilization/transfer log for each portable gauge at the storage location(s) stated in License Condition 10 or subsequent amendments. The utilization/transfer log shall include, but not be limited to, dates of use, location of use, and the name of the authorized individual checking out the gauge.
- 22. The transport of licensed material by the licensee, or the delivery of licensed material to a carrier for transport, shall be in accordance with WAC 246-232-090, "Transportation".
- 23. Detector cells containing Nickel 63 shall only be used in conjunction with a properly operating temperature control mechanism that prevents foil temperatures from exceeding the manufacturer's specifications.



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License Number: WN-L083-1

Amendment No. 37

24. Surveys for contamination shall be performed and recorded weekly in designated Carbon-14 use areas during use periods, after use if use is sporadic, and monthly in storage areas including waste storage. When no material is being used, storage areas may be surveyed quarterly.

Surveys shall include:

- A. Direct surveys done with an appropriate survey instrument (except for Hydrogen-3 and Carbon-14), and,
- B. A wipe survey counted with an appropriate instrument. A liquid scintillation counter is required for Hydrogen-3 and recommended for Carbon-14.

Survey instruments shall be calibrated annually by persons specifically authorized by the department, the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.

- 25. Except as specifically provided by this license, the licensee shall possess and use radioactive material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in the documents listed below. The department's "Rules and Regulations for Radiation Protection" shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.
- A. Application and attachments dated 8 April 1999.
- B. Letter and attachments dated 17 May 1999.

FOR THE STATE OF WASHINGTON DEPARTMENT OF HEALTH

Date \_\_\_\_28 May 1999



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License Number: WN-L083-1

Amendment No. 38

WEYERHAEUSER TECHNOLOGY CENTER

Mail Stop: WTC TR2
Post Office Box 2999
Tacoma, Washington 98477-2999

Attention:

Allan-Sutton

Radiation Safety Officer

In accordance with amendment request information referenced below, Radioactive Materials License Number WN-L083-1 is amended as follows:

Subitem X of Items 6, 7, and 8 and License Conditions 9.X., 26, 27, and 25.C. are added:

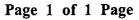
- 6.X. Gadolinium 153. 7.X. Same as 7.A. 8.X. No single source to exceed 37 gigabequerels (1 curie).
- 9.X. For use in Lixi, Inc. Model LS-82X portable fluoroscopes for analysis of pipe wall thickness.
- 26. The licensee shall possess and use personnel monitoring (film badge or TLD from an approved supplier) capable of detecting beta and gamma radiation. These personnel monitoring devices shall be exchanged at least quarterly.
- 27. The radioactive materials authorized in this license shall not be used on humans or animals.
- 25.C. Letter and attachments dated 30 September 1999; RE: Addition of Lixi, Inc. portable fluoroscope.

FOR THE STATE OF WASHINGTON DEPARTMENT OF HEALTH

Date: October 1, 1999

(99-09-35)

Arden C. S.





License Number: WN-L083-1

Amendment No. 39

#### WEYERHAEUSER TECHNOLOGY CENTER

Attn: Radiation Safety Officer, WTC-TR2 Post Office Box 9777 Federal Way, Washington 98063-9777

Attention:

Allan Sutton

Radiation Safety Officer

In accordance with amendment request information referenced in License Condition 25.D, Radioactive Materials License Number WN-L083-1 is amended as follows:

#### Item 2 is amended to read:

Post Office Box 9777
 Federal Way, Washington 98063-9777
 (formerly - Post Office Box 2999, Tacoma, Washington 98477-2999).

Subitem X of Items 6, 7, and 8 and License Condition 9 is deleted.

#### License Condition 25.D is added:

**25.D.** Letter and attachment dated 14 August 2001; RE: remove licensed source/device and change mailing address.

FOR THE STATE OF WASHINGTON DEPARTMENT OF HEALTH

Date: 10 September 2001

(01-08-37)

Arden C. Scroggs



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License Number: WN-L083-1

Amendment No. 40

#### WEYERHAEUSER TECHNOLOGY CENTER

Attn Norma Lupkes, Interim RSO WTC TR2
Post Office Box 9777
Tacoma, Washington 98063-9777

Attention:

Norma Lupkes, Interim

Radiation Safety Officer

In accordance with amendment request information referenced in License Condition 25.E, Radioactive Materials License Number WN-L083-1 is amended as follows:

#### License Condition 25.E is added:

25.E. Letter received 13 November 2001; RE: Acting (Interim) Radiation Safety Officer.

FOR THE STATE OF WASHINGTON DEPARTMENT OF HEALTH

Date: 20 November 2001

(01-11-12)

By:

Arden C. Scroggs



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License Number: WN-L083-1

Amendment No. 41

### WEYERHAEUSER TECHNOLOGY CENTER

Attn Norma Lupkes, RSO WTC TR2 Post Office Box 9777 Federal Way, Washington 98063-9777

Attention:

Norma Lupkes

Radiation Safety Officer

In accordance with amendment request information referenced in License Condition 25.F, Radioactive Materials License Number WN-L083-1 is amended as follows:

#### License Condition 12 is amended to read:

12. The Radiation Safety Officer for this program shall be Norma Lupkes.

#### License Condition 25.F is added:

25.F. Letter and attachments dated 12 September 2002; RE: Corrective actions & finalize RSO position.

FOR THE STATE OF WASHINGTON DEPARTMENT OF HEALTH

Date: 4 October 2002

(02-10-04)

Arden C/Scroggs